CLAIMS

A workflow management device comprising:

What is claimed is:

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2 a communications interface configured to receive a user request 3 comprising one or more user-desired product properties to achieve a user-desired 4 product, the interface further configured to communicate with one or more 5 devices located external of the workflow management device; 6 a storage device configured to store data for processing the user request; 7 and 8 processing circuitry configured to process the user request using the data 9 to produce a transformed user request, the transformed user request including 10 information for automatically organizing workflow to process the one or more 11 user-desired product properties to achieve the user-desired product. 1 2. The device of claim 1, wherein the transformed user request is 2 received by a controller configured to control the workflow to perform the one or 3 more user-desired product properties. 1 3. The device of claim 2, wherein the transformed request comprises 2 additional information to process the user request in accordance with 3 specifications of the user, and the additional information comprises information 4 to route and process the one or more user-desired product properties, and

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properties.

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4. The device of claim 1, wherein the user request is received in a job definition format (JDF).

information to prioritize processing of the one or more user-desired product

1 5. The device of claim 1, wherein the interface is configured to 2 receive the user request via the Internet.

- 1 6. The device of claim 1, wherein the data comprises instructions 2 written in Extensible Stylesheet Language.
- 7. The device of claim 1, wherein the processing circuitry is an XSLT
 processor.
- 1 8. The device of claim 1, wherein the processing circuitry applies XSL transformation to the user request to produce the transformed user request.
- 9. The device of claim 1, wherein the data is stored in a stylesheet within the storage device, and the stylesheet comprises instructions written in an XSL format.
- 1 10. A workflow processing device comprising:
 2 a stylesheet having defined rules for processing a user request; and
 3 processing circuitry configured to receive the user request, load the
 4 defined rules, and execute the defined rules to create a transformed request, and
 5 wherein the transformed request comprises instructions to automatically
 6 organize workflow to efficiently process the user request.
- 1 11. The device of claim 10, wherein the user request comprises one or 2 more user-desired product properties, and wherein the transformed request 3 comprises information to process the user request.
- 1 12. The device of claim 10, wherein the user request is received in a 2 job definition format (JDF).
- 13. The device of claim 10, wherein the defined rules comprise
 instructions written in Extensible Stylesheet Language.
- 1 14. The device of claim 10, wherein the processing circuitry applies 2 XSL transformation to the user request to produce the transformed request.

1	15. A workflow management system for managing workflow in a
2	printing system, comprising:
3	one or more devices configured to process a user request, the one or
4	more devices communicatively coupled to a communications medium; and
5	a workflow management device comprising:
6	a communications interface configured to receive the user request, the
7	interface further configured to communicate with the one or more devices
8	located external of the workflow management device;
9	a storage device configured to store rules data for processing the user
0	request, the user request comprising one or more user-desired product
1	properties; and
2	processing circuitry configured to process the request using the rules data
3	and produce a transformed request, the transformed request comprising
4	information for automatically organizing workflow through the system to proces
5	the one or more user-desired product properties to produce a user-desired
6	product.
1	16. The system of claim 15, further comprising:
2	a controller configured to receive the transformed request and assign the
3	one or more user-desired product properties to the one or more devices for
4	processing using information from the transformed request.
1	17. The system of claim 15, wherein the user request is received in a
2	job definition format (JDF).
1	18. The system of claim 15, wherein the rules data comprise
2	instructions written in Extensible Stylesheet Language.
1	19. The system of claim 15, wherein the processing circuitry applies
2	XSL transformation to the user request to produce the transformed request.

A workflow assignment method comprising:

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- receiving a user request, the request having one or more user-desired product properties;
- 4 creating a stylesheet having defined rules for processing the user request;
- loading the defined rules and the user request into a processing circuitry

 configured to process the user request; and
- executing the defined rules to create a transformed user request, the transformed user request comprising additional information to automatically organize workflow to process the one or more user-desired product properties to produce a user-desired product.
- 1 21. The method of claim 20, further comprising:
- 2 receiving the transformed user request in a controller; and
- 3 controlling the workflow to process the one or more user-desired product
- 4 properties using information from the transformed user request.
- 1 22. The method of claim 20, wherein the receiving comprises receiving
- 2 the user request in a job definition format (JDF).
- 1 23. The method of claim 20, wherein the creating comprises creating
- 2 the stylesheet in XSL format having instructions written in Extensible Stylesheet
- 3 Language.
- 1 24. The method of claim 22, wherein the receiving further comprises
- 2 receiving the user request via the Internet.
- 1 25. The method of claim 20, wherein the loading and the executing are
- 2 performed by an XSLT processor.
- 1 26. The method of claim 20, wherein the creating the transformed user
- 2 request comprises applying the defined rules and using XSL transformation to
- 3 the user request, and the transformed user request comprise definition of
- 4 workflow tasks to be performed, settings and properties for the workflow tasks,

J	and one of more discretes product properties to produce a discretes
6	product.
1	27. A method of managing workflow in a printing system, comprising:
2	receiving a user request having one or more user-desired product
3	properties in a first processor;
4	generating a document with the one or more user-desired product
5	properties;
6	defining a set of rules using which the document is processed; and
7	processing the document using the defined set of rules to create a
8	modified document, the modified document having instructions to organize
9	workflow to perform the one or more user-desired product properties to produce
0	a user-desired product.
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1	28. The method of claim 27, further comprising:
2	transmitting the modified document to a second processor configured to
3	route the workflow to process the user request having the one or more user-
4	desired product properties using instructions from the modified document.
1	29. The method of claim 27, wherein the instructions comprise
2	instructions to assemble the workflow, and instructions to decide how the one
3	or more user-desired product properties should be processed through the printing
4	system.
1	30. A workflow assignment system comprising:
2	means for receiving a user request, the request having one or more user-
3	desired product properties;
4	means for creating a stylesheet having defined rules for processing the
5	user request;
6	means for loading the defined rules and the user request into a processing
7	means configured to process the user request; and
8	means for executing the defined rules to create a transformed user
9	request, the transformed user request comprising additional information to

10 organize workflow to perform the one or more user-desired product properties to 11 produce a user-desired product. 1 31. An article of manufacture comprising: 2 processor-usable media embodying programming configured to cause a 3 processing circuitry of a workflow management device to: 4 receive a user request, the request having one or more user-desired 5 product properties; 6 create a stylesheet having defined rules for processing the user 7 request; 8 load the defined rules and the user request into a processing 9 circuitry configured to process the user request; and 10 execute the defined rules to create a transformed user request, the 11 transformed user request comprising additional information to organize workflow

to perform the one or more user-desired product properties to produce a user-

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desired product.